

## **AMENDMENTS TO THE CLAIMS:**

Please amend claims 1-20 as follows:

1. (Currently Amended) A method for providing reliable transmission Quality of Service (QoS) ~~of service~~ in a communication network, ~~[[wherein,]]~~ the method comprising:

A. ~~[[Creating]]~~ creating a QoS connection between bearer network resource managers in the communication network;

B. ~~[[Exchanging]]~~ exchanging and negotiating ~~[[the]]~~ QoS information, which the communication network ~~should provide~~ provides during ~~[[the]]~~ data transmission ~~procedure~~, among the bearer network resource managers through the ~~said~~ QoS connection; and

C. ~~[[According]]~~ according to the QoS information sent by a respective bearer network resource manager of the bearer network resource manager managers, ~~[[the]]~~ a connection node connected to ~~[[this]]~~ the respective bearer network resource manager providing corresponding resource.

2. (Currently Amended) The method according to claim 1, wherein ~~[[, s said]]~~ the bearer network resource manager ~~locates~~ is located in a bearer control layer of ~~[[the]]~~ a multiservice network.

3. (Currently Amended) The method according to claim 1, wherein ~~[[, said]]~~ step A ~~comprising~~ comprises the following steps for establishing the QoS connection initially:

A1. ~~Local~~ a local bearer network resource manager that initiates ~~[[the]]~~ a create connection procedure sending ~~[[a]]~~ an establish connection request to a peer bearer network resource manager; and

A2. the peer bearer network resource manager responding to ~~said creating~~ the establish connection request and creating the QoS ~~[[based]]~~ connection.

4. (Currently Amended) The method according to claim 3, ~~[[wherein,]]~~ further comprising before step A2 ~~further comprising~~:

~~[[Peer]]~~ the peer bearer network resource manager judging whether identity of the local bearer network resource manager is valid, and if valid, executing step A2; otherwise, returning a message of unable to create the QoS connection to the local bearer network resource manager.

5. (Currently Amended) The method according to claim 3, wherein ~~[[, the]]~~ information carried in the ~~[[creating]]~~ establish connection request ~~[[comprising:]]~~ comprises identification information and authentication information of the local bearer network resource manager initiating the ~~[[creating]]~~ establish connection request.

6. (Currently Amended) The method according to claim 3, ~~[[wherein,]]~~ further comprising after ~~the said~~ step A2 ~~further comprising~~:

A3. ~~[[Local]]~~ the local bearer network resource manager periodically sending a handshake message to the peer bearer network resource manager, and determining ~~[[the]]~~ a connection status according to ~~[[the]]~~ a handshake response returned by the peer bearer network resource manager.

7. (Currently Amended) The method according to claim 6, wherein ~~[[, the said]]~~ step A3 ~~[[comprising]]~~ comprises:

A31. ~~[[Creating]]~~ creating a local Keep Active (KA) timer at the local bearer network resource manager, and creating a peer Keep Active (KA) time at the peer bearer network resource manager;

A32. ~~[[When]]~~ when the local KA timer is timeout, the local bearer network resource manager adding 1 to timeout times of the local KA timer and sending a further handshake message to peer bearer network resource manager;

A33. ~~[[After]]~~ after receiving the further handshake message, the peer bearer network resource manager restarting the peer KA timer and returning a handshake response to the local bearer network resource manager; and

A34. ~~[[Local]]~~ the local bearer network resource manager determining the ~~created~~ QoS connection status according to the timeout times of the local KA timer, the peer bearer network resource manager determining the ~~[[QoS]]~~ connection status according to whether the peer KA timer is timeout.

8. (Currently Amended) The method according to claim 6, wherein [[,]] the information carried in the ~~said~~ handshake message [[including:]] includes connection ID information and connection resource state information.

9. (Currently Amended) The method according to claim 1 [[or 3]], wherein [[, the said]] step B [[comprising:]] comprises [[Local]] a local bearer network resource manager interacting with a peer bearer network resource manager through a plurality of intermediate bearer network resource managers, and [[said]] the intermediate bearer network resource [[manager]] managers only taking charge in message transfer.

10. (Currently Amended) The method according to claim 1 [[or 3, wherein]], further comprising after ~~the said~~ step B ~~further comprising~~:

[[The]] a bearer network resource manager that finally receives [[said]] the QoS information managing and controlling resources of [[the]] a connection node under its control according to the received QoS information.

11. (Currently Amended) The method according to claim 1, wherein [[, the said]] step B ~~comprising~~ comprises:

B1. [[Local]] a local bearer network resource manager sending a QoS resource control message that carries the QoS information to [[the]] connection nodes under its control as well as to a peer bearer network resource manager;

B2. [[Peer]] the peer bearer network resource manager sending a QoS resource control policy to [[said]] the connection node according to the [[received]] QoS resource control message;

B3. [[After]] after receiving [[said]] the QoS resource control policy, the connection node returning a response of the QoS resource control policy to the ~~said~~ peer bearer network resource manager; and

B4. [[Peer]] the peer bearer network resource manager returning a response of the QoS resource control message to the local bearer network resource manager.

12. (Currently Amended) The method according to claim 11, wherein [[,]] the ~~said~~ QoS resource control message in step B1 [[being :]] includes QoS resource request information, which carries ~~information-like~~ connection identification, stream information, QoS parameters [[and]] or a stream descriptor.

13. (Currently Amended) The method according to claim 11, wherein [[,]] the [[said]] QoS resource control message in step B1 [[being :]] includes a QoS resource release request, which carries ~~information-like~~ a connection identifier [[and]] or a reason code.

14. (Currently Amended) The method according to claim 11, wherein ~~[[, said]]~~ the QoS resource control message in step B1 ~~[[being :]]~~ includes a QoS resource modify request, which carries ~~information like a~~ a connection identifier and ~~[[the]]~~ modified parameter information corresponding to the QoS ~~[[resource]]~~ connection.

15. (Currently Amended) The method according to claim 11, wherein ~~[[, said]]~~ the QoS resource control message in step B1 ~~[[being]]~~ includes a connection status inquiry message, and ~~[[said]]~~ wherein step B4 ~~[[comprising]]~~ comprises:

~~[[After]]~~ after receiving the response from the connection node, the peer bearer network resource manager checking resource consistency of the created QoS connection; and  
returning a response of the connection status inquiry message to the local bearer network resource manager according to ~~[[the check]]~~ a result of the checking step.

16. (Currently Amended) The method according to claim 15, wherein ~~[[,]]~~ the information carried in ~~[[said]]~~ the response of the connection status inquiry message ~~including: Connection~~ includes any one or more of the following: a connection identifier, [[or]] stream information, [[or]] QoS parameters, [[or]] a stream descriptor, [[or]] a label stack, [[or]] a path maximum transmission unit, [[or]] and a bearer network resource manager stack, or any combination of the above elements.

17. (Currently Amended) The method according to claim 5 ~~or claim 8 or claim 12 or claim 13 or claim 14 or claim 16~~, wherein ~~, said message further carrying~~ the information ~~[[like:]]~~ includes data consistency information.

18. (Currently Amended) The method according to claim 17, wherein [[, said]] the data consistency information [[comprising:]] comprises a parameter global path maximum transmission unit, a global label stack depth, an intra-domain label stack depth and a stream description.

19. (Currently Amended) The method according to claim 11, wherein [[, said]] the connection node [[being]] includes a router.

20. (Currently Amended) The method according to claim 1, wherein [[, said]] the respective bearer network resource manager [[being]] includes a bandwidth broker, [[or being]] a call agent, or [[being]] a connection manager.